

**IN THE CLAIMS**

The following listing of claims replaces any earlier listing:

1. (currently amended) Cosmetic active substance preparation with a high radical protection factor, which comprises a content of

(a) a product obtained by extraction of the bark of *Quebracho Blanco* and subsequent enzymatic hydrolysis, containing at least 90 percent by weight of proanthocyanidine oligomers and up to percent by weight of gallic acid, where the content of (a), which is available in a concentration of 2 percent by weight linked to a microcapsule ranges from 0.1 to 10 wt.%;

(b) an extract of the silkworm obtained by extraction, containing the peptide cecropine, amino acids and a vitamin mix, where the content of (b) ranges from 0.1 to 10 wt.%;

(c) a non-ionic, cationic or anionic hydrogel or mixture of hydrogels, where the content of (c) ranges from 0.1 to 5 wt%; and where is prepared by solution of a gel forming agent in water at temperatures above 40-50°C and which hydrogel takes the gel structure at temperatures between 10 and 30°C (specification page 4, lines 29-32).

(d) one or several phospholipids in the range of 0.1 up to 30 wt.%;

(e) an ultrasound decomposition product of a yeast containing at least 150 units of superoxide dismutase per ml, wherein the content of the decomposition product is in the range from 0.5 to 4 percent by weight;

(f) one or more cyclodextrines selected from the group consisting of  $\beta$ - and  $\gamma$ -cyclodextrins with a share of 0.5 to 8 % by weight; and

(g) up to 100 percent by weight of water;

related to the total weight of the active substance preparation each.

2. (currently amended) Preparation according to claim 1, ~~characterised by additionally further~~ comprising an extract of acerola fruits ~~Malpighia punidifolia, wherein the content (g) is~~ in the range from 1 to ~~30~~ 20 wt.%; related to the total weight of the active substance preparation, which extract is a powdered product stemming from an aqueous extract comprising vitamin C, vitamin A, thiamine, riboflavine, niacine, phosphorus, iron, calcium (from specification page 8, lines 3-7).

3. (currently amended) Preparation according to claim 1, wherein ~~characterised in that~~ the portions of the components lie within the following ranges: active substance capsules according to (a) and (b) ranging from 0.5 to 3 wt.%, hydro gel according to (c) ranging from 0.1 to 3 wt.%, cyclodextrin and yeast decomposition product each in the range of 1 to 3 % by weight.

4. (currently amended) Preparation according to claim 1, wherein ~~characterised in~~ a radical protection factor in the range from 100 to 3500, measured by determining the number of free radicals of a solution of a test substance (S1) by electron spin resonance (ESR) as compared with the ESR measurement result of the cosmetic active substance preparation according to the relationship

$RPF = (RC \times RF) / PI$ , where  $RF = (S1-S2) / S1$  ;  $RC$  = concentration of the test substance (radicals per ml);  $PI$  = concentration of the active substance preparation (mg per ml).

5. (currently amended) Preparation according to claim 1, wherein characterised in that the extract (a) contains at least 99 wt.% of proanthocyanidine oligomers and up to 1 wt.% of gallic acid.

6. (currently amended) Preparation according to claim 1, wherein characterised in that the amino acids contained in (b) comprise ~~aspartine~~ aspartic acid, asparagine, threonine, serine, glutamic acid, proline, glycine, alanine, valine, cysteine, methionine, isoleucine, leucine, tyrosine, phenylalanine, lysine, histidine, arginine.

7. (currently amended) Preparation according to claim 1, wherein characterised in that the active substance preparation contains portions of the components (a) and (b) each in the range of 0.1 to 3 % by weight.

8. (currently amended) Preparation according to claim 1, wherein characterised in that the active substance preparation exists as cosmetic composition, further comprising one or several of the following components:

(1) extracts or treated extracts binding free radicals or moisture of

(1.1) plants selected among acerola fruits (~~Malpighia punidifolia~~), *Camellia oleifera*, *Colunsonia canadensis* and *Hibiscus sabdariffa*; or

(1.2) algae selected among omega plankton, providing a high portion of cerebrosid stimulants, microalgae of the chlorella species and macro algae of the ulva species associated with byssus (mussel silk) as biotechnological protein fraction and subsequently associated with dextrine, wherein the product appears in the mixture with peptide derivates derived from .alpha.-MSH and associated with xanthin;

(2) yeast decomposition products selected among baker's yeast, brewer's yeast, wine yeast and made according to a non-harming ultrasound treatment of the aqueous yeasts;

(3) natural and synthetic polymers selected among chitosanglycolate, condensed products of desiccated milk, and activated fatty acids;

(4) magnetically hard single crystals of bariumhexaferrite having a coercitive field intensity of 3000 - 5000 Oe and a grain size of 50-1200 nm intercalated in or mixed with asymmetric lamellar aggregates of phospholipids and fluorocarbons; and

(5) other active substances selected among chitosanglycolate, hyaluronic acid, omega CH activator, behentrimonium chloride, passion flower oil and carrier substances;

(6) mixtures thereof.

9. (currently amended) Preparation according to claim 1, further comprising ~~characterised in that it comprises~~ an additional portion of 0.1 to 20 wt.% of plant extracts selected from the group consisting of citrus peel or leaf extracts of ~~[[[]]~~ *Citrus bigaradia*, *Citrus hystrix*, *Citrus aurantifolia*, *Citrofurtunella microcarpa*, *Citrus aurantium*, or *Citrus*

reticulate[()],] ; peel or fruit extracts of petitgrain; ~~extract~~  
~~(peel or fruit)~~, extract of the Spanish cherry[(),]; kiwi  
extract[(),]; ~~(Actinidia chinensis)~~, papaya fruit extract  
~~(Caricae papayae)~~; extract of leaves of green or black tea  
~~extract [leaves of green or black tea, leaves or bark of new~~  
~~jersey tea (Ceanthus velutinas)]~~; coffee bean extract ~~(INCI~~  
~~name: coffee bean extract~~, of green or roasted beans; ~~)~~, ~~Prunus~~  
extract of [()] *Prunus armeniaca*, *Prunus dulcis*, *Prunus*  
*persica*, *Prunus domestica*, *Prunus spinosa*, *Prunus serotina*, or  
*Prunus virginiana*);[(),] extracts of the bark of ~~the Mexican~~  
~~skin tree (Mimosa tenuiflora)~~[(),]; angelica root extract  
~~(Angelica archangelica)~~; Pongamia pinnata extract[(),]; and  
tomato extract; and the remaining portion of carrier substances  
or other active substances and carrier substances.

10. (canceled)

11. (canceled)

12. (previously presented) A cosmetic active substance as in  
claim 1, wherein said substance is in a form selected from the  
group consisting of a cream, a gel, a lotion, a mask, makeup,  
shampoo, a stick, an oil, mascara, a sun screen composition, a  
toothpaste and a mouthwash preparation.

13. (previously presented) A method for imparting to skin  
protection against free radical aggression, said method  
comprising applying to said skin a cosmetic active substance  
preparation which comprises a content of

a) a product obtained by extraction of the bark of *Ouebracho blanco* and subsequent enzymatic hydrolysis, containing at least 90 percent by weight of proanthocyanidine oligomers and up to 10 percent by weight of gallic acid, where the content of (a), which is available in a concentration of 2 percent by weight linked to a microcapsule ranges from 0.1 to 10 wt.%;

(b) an extract of the silkworm obtained by extraction, containing the peptide cecropine, amino acids and a vitamin mix, where the content of (b) ranges from 0.1 to 10 wt.%;

(c) a non-ionic, cationic or anionic hydrogel or mixture of hydrogels, where the content of (c) ranges from 0.1 to 5 wt.%;

(d) one or several phospholipids in the range of 0.1 up to 30 wt.%;

(e) an ultrasound decomposition product of a yeast containing at least 150 units of superoxide dismutase per ml, wherein the content of the decomposition product is in the range from 0.5 to 4 percent by weight;

(f) one or more cyclodextrines selected from the group consisting of  $\beta$ - and  $\gamma$ -cyclodextrins with a share of 0.5 to 8 % by weight; and

(g) up to 100 percent by weight of water;

related to the total weight of the active substance preparation each.

14. (previously presented) A method as in claim 13, wherein said cosmetic active substance preparation is in the form of a cream, a gel, a lotion, a mask, makeup, shampoo, a stick, an oil, mascara, a sun screen composition, a toothpaste and a mouthwash.